

AMENDMENTS TO THE CLAIMS

Please amend Claims 1-7, 10, 12 and 15; and add new Claims 16-18 as follows.

LISTING OF CLAIMS

1. (currently amended) A heat exchanger ~~provided with~~ comprising:

a plurality of tubes arranged in parallel with each other; [[and]]

sheet-like fins attached to ~~these so as~~ the plurality of tubes to bridge [[the]]

intervals between facing tubes, the sheet-like fins [[and]] performing heat exchange between a first fluid flowing ~~through~~ the inside of the plurality of tubes and a second fluid flowing in contact with [[the]] outer surfaces of the tubes and the fins[[,]]; wherein

a meandering projections are projection is formed [[at]] in each of said fins, the meandering projection extending over an entire width of the fin in a direction generally parallel with a flow direction of the second fluid to form a generally rectangular flow passage which extends through a respective interval between facing tubes in the direction generally parallel to the flow direction of the second fluid.

2. (currently amended) A heat exchanger as set forth in claim 1, wherein said projections ~~formed at~~ said fins meander centered about a basic the flow direction of flow of said second fluid so as to be directed toward said tubes.

3. (currently amended) A heat exchanger as set forth in claim 1, wherein top surfaces of the meandering projections ~~of the fins~~ are formed with louver-shaped pieces cut and raised, the louver-shaped pieces from them disturbing the flow of said second fluid.

4. (currently amended) A heat exchanger as set forth in claim 1, wherein top surfaces of the meandering projections ~~of the fins~~ are formed with relief shapes disturbing the flow of said second fluid.

5. (currently amended) A heat exchanger as forth in claim 4, wherein said relief shapes formed on the top surfaces of the meandering projections ~~of the fins~~ are arranged along wave shapes disposed in [[the]] a longitudinal directions direction of said tubes about ~~a basis~~ the flow direction of flow of said second fluid.

6. (currently amended) A heat exchanger as set forth in claim 1, wherein said fins are corrugated fins basically bent into wave shapes between facing tubes.

7. (currently amended) A heat exchanger as set forth in claim 1, wherein said fins are plate fins of basically plate shapes connecting the plurality of said tubes.

8. (original) A heat exchanger as set forth in claim 1, wherein said tubes have outer surfaces with flat sectional shapes.

9. (original) A heat exchanger as set forth in claim 1, wherein said tubes have outer surfaces with wedge-shaped sectional shapes.

10. (currently amended) A heat exchanger as set forth in claim 8, wherein said tubes form pluralities a plurality of fluid passages.

11. (original) A heat exchanger as set forth in claim 8, wherein said tubes form single fluid passages.

12. (currently amended) A heat exchanger as set forth in claim 9, wherein said tubes form pluralities a plurality of fluid passages.

13. (original) A heat exchanger as set forth in claim 9, wherein said tubes form single fluid passages.

14. (original) A heat exchanger as set forth in claim 1, wherein said tubes have outer surfaces with substantially circular sectional shapes.

15. (currently amended) A heat exchanger as set forth in claim 14, wherein a first plurality of said tubes are arranged on [[an]] a first identical virtual plane and another a second plurality of said tubes are arranged on another a second virtual plane facing [[that]] the first virtual plane.

16. (new) A heat exchanger according to claim 1, wherein the flow passage comprises a single generally rectangular passage.

17. (new) A heat exchanger according to Claim 16, wherein the meandering projection includes a first wall directing the second fluid towards one of the facing tubes and a second wall directing the second fluid towards the other of the facing tubes.

18. (new) A heat exchanger, comprising:

a plurality of flat tubes arranged in parallel with each other; and
a plurality of corrugated fins disposed between adjacent pairs of the flat tubes so as to provide parallel arranged fin plates bridging the flat tubes, wherein
each of the fin plates are formed with a first flat surface adjacent to and perpendicular to the flat tube, a second flat surface perpendicular to the flat tube, and a side surface between the first and second flat surfaces, the side surface facing a respective flat tube and continuously extending from an upstream edge to a downstream edge of the fin plate along a stream direction and smoothly meandering in wave-shape along the stream direction so that the side surface and the flat tube define a stream passage that repeats narrowing toward the flat tube and widening from the flat tube.